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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/586,686	07/20/2006	Yasuaki Norimatsu	520.46388X00	7326		
20457 7590 12/22/2008 ANTONELL, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			EXAM	EXAMINER		
			SCHNEIDE	SCHNEIDER, CRAIG M		
SUITE 1800 ARLINGTON	VA 22209-3873		ART UNIT	PAPER NUMBER		
	,		3753	•		
			MAIL DATE	DELIVERY MODE		
			12/22/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/586,686	NORIMATSU ET AL.		
Examiner	Art Unit	_	
CRAIG M. SCHNEIDER	3753		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

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Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIR WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.138(a). In no event, bower, may a reply be timely filed after SIX (6) MONTHS from the making date of this communication. Failure to reply within the set or extended period for reply will by stated, cause the application to become AMMONDED (SE USE): S Any yeply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned pattern term adjustment, See 37 CFR 1.74(b).	of this communication.
Status	
Responsive to communication(s) filed on 20 July 2006. This action is FINAL. 2b)⊠ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as	to the merits is
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims	
4) ⊠ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-10 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.	
Application Papers	
9)⊠ The specification is objected to by the Examiner. 10)⊠ The drawing(s) filed on \(\frac{72006}{22006} \) is/are: a)\(\) accepted or b)\(\) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or for	37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ⊠ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No. 3. ☒ Copies of the certified copies of the priority documents have been received in this Nat application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.	_
Attachment(s)	
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)	

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SE/US)

Paper No(s)/Mail Date 7/20/06 and 11/1/07.

Paper No(s)/Mail Date. ___ 5) Notice of Informal Patent Application. 6) Other: _

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DETAILED ACTION

Drawings

 The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the coating of claim 6 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities:

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On page 1, line 24 to 25 the applicant is referring to "(see, for example, Patent Literature 1)". It is unclear as to what the applicant is referring to. The examiner suggests that either the applicant further clarifies what is meant or to delete this from the specification.

On page 3, line 3-5 the applicant is identifying Patent Literature 1 but the examiner was unable to locate this document in the file. The examiner is requesting that the applicant either provide the referred to document or delete the reference to the document.

On page 5, line 12 "mounted" should be --pre-mounted --.

On page 5, line 17 "Fig 2;" should be --Fig. 2(b);--.

On page 6, lines 1-8 the applicant has a partial list of the reference numerals.

The examiner is requesting that the applicant include all the reference numerals from the Figures in the section or delete the section.

On page 8, line 15 "mounted" should be --pre-mounted--.

On page 10, line 17 "height" should be --thickness--.

On page 15, line 12, "PTEF" should be -PTFE--.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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 Claims 1-4, 9, and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Saulle (4,979,652).

Saulle discloses a fuel container for a fuel cell comprising a container body (1 and 2), which is provided with a liquid fuel chamber (3) for storage of liquid fuel and a discharge means accommodating chamber (4) for accommodating means for discharging the liquid fuel; a valve (7) disposed in the container body to discharge or shut off the liquid fuel; and a partition wall member (10) disposed slidably in the interior of the container body, wherein the partition wall member partitions the interior of the container body into the liquid fuel chamber and the discharge means accommodating chamber, the liquid fuel chamber and the discharge means accommodating chamber are in communication with each other through the partition wall member, and at least one of sliding surfaces of the container body and the partition wall member contains a material of a low frictional coefficient not dissolving out into the liquid fuel (col. 2, line 35 to col. 4, line 3).

Regarding claims 2, 3, and 4; the connecting portion is the area in which the valve (7) is housed and connecting the valve to a fuel cell is intended use which does not patentably distinguish over the prior art since the device could be connected to a fuel cell.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the Application/Control Number: 10/586,686

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Saulle in view of Deinzer et al. (WO 03/043112, utilizing US2006/0172171 as a translation).

Saulle discloses all the features of the claimed invention except that the valve is urged in the direction of a nozzle outlet by means of a spring. Deinzer et al. disclose the use of a valve (411) that is spring urged in the direction of a nozzle outlet (1a)(page 4, para. 73-76).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a valve urged closed by a spring in the outlet as disclosed by Deinzer et al. as the valve structure in Saulle, in order to provide a positive closing valve.

 Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saulle in view of Gupta (2003/0019888).

Saulle discloses all the features of the claimed invention except that the partition wall member is coated in PTFE. Gupta discloses coating the partition wall members contact surface (300) in PTFE (para. 77).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a PTFE coating on the contact surface as disclosed by Gupta with the contact surface of the piston of Saulle, in order to provide a self-lubricating contact between the piston and the chamber.

 Claims 6 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saulle in view of Baumann (5,033,940). Art Unit: 3753

Saulle discloses all the features of the claimed invention except that the partition wall member is coated in diamond-like carbon. Baumann discloses coating the piston surface (8) in diamond-like carbon (col. 5, lines 22-42).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize a diamond-like carbon coating on the piston surface as disclosed by Baumann on the outer surface of the piston of Saulle, in order to provide a wear resistant piston.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CRAIG M. SCHNEIDER whose telephone number is (571)272-3607. The examiner can normally be reached on M-F 8:00 -4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Huson can be reached on (571) 272-4887. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. M. S./ Examiner, Art Unit 3753 December 18, 2008 /Stephen M. Hepperle/ Primary Examiner, Art Unit 3753